

BSU
CUT
2/2

JAN - 2024

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Cardiac Care Technology

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER - I (Development of Cardiovascular System, Cardiovascular Pathology)

QP CODE: 8435

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain Stages of development of Heart with diagrams.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Constructive pericarditis.
3. Clinical features of IHD.
4. Pathophysiology of Aortic Stenosis.
5. Infective endocarditis.
6. Define Hypertension, write its causes and Classification.
7. Write Pathophysiology of Mitral Regurgitation.
8. Diagnosis and management of TOF.
9. Clinical features of pericardial disease.
10. Define VSD and write its classification.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Difference between DORV and TOF.
12. Name the Acyanotic Congenital Heart Diseases.
13. Mitral Valve apparatus.
14. Explain pulmonary circulation.
15. Risk factors for Atherosclerosis.
16. Write the major diagnostic criteria for Acute Rheumatic fever.
17. Causes for Mitral Stenosis.
18. What are Cardiac Biomarkers?
19. Management of cardiac Tamponade.
20. Classification of Coarctation of aorta.
21. Types of ASD.

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IV SEMESTER

PAPER - II (Advanced Electrocardiography)

QP CODE: 8436

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain myocardial infarction and types with appropriate electrocardiographic illustrations.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Electrocardiographic manifestation of VT.
3. Electrocardiographic effects of hyperkalemia.
4. Treadmill Test.
5. ECG features of supraventricular tachycardia.
6. Write ECG in Pulmonary Hypertension.
7. ECG evaluation of p wave.
8. Posterior myocardial infarction.
9. Pacemaker
10. ECG features of LVH and RVH

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Significance of RBBB
12. List out the causes of low voltage QRS Complex
13. Narrate the causes of left axis deviation
14. ECG manifestation of post MI
15. Write about ST segment elevation
16. Normal and abnormal P wave in ECG
17. ECG features of Atrial Premature complex
18. ECG in Hypercalcemia.
19. How will you calculate the HR in ECG
20. ECG recognition of second degree AV Block.
21. How to recognize Bilateral enlargement

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IV SEMESTER

PAPER - III (Advanced Echocardiography)

QP CODE: 8437

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Echocardiographic evaluation of LV Systolic Function.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Echo Features of Dilated Cardiomyopathy.
3. Write Echo features of rheumatic Mitral Stenosis.
4. Write different method to calculate pulmonary hypertension.
5. Echo features of Patent Ductus Arteriosus.
6. Draw neat labeled diagrams of LV Segments.
7. Write Indications and contraindication of Transesophageal Echo.
8. Draw M-Modes of Normal Mitral valve, Aortic Valve & Pulmonary valve.
9. Explain procedure of contrast echo and write its Indications.
10. Echo features of TOF.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Echo features of Pericardial effusion
12. Mitral Valve Prolapse
13. Teichholz method
14. Write types of Stress Echocardiography
15. LV Mass Calculation.
16. Different types of Prosthetic Valves
17. Aortic Stenosis grading by PPG & MPG
18. Coarctation Of Aorta
19. PISA Method
20. Diastolic Dysfunction
21. Grade Pulmonary Stenosis

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IV SEMESTER

PAPER - IV (CCT Directed Clinical Education - II)

QP CODE: 8438

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is called biomedical waste? What are the types of BMW and why it is important?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Classify Vital signs and write the factors affecting the vital signs
3. ECG in Complete Heart Block
4. Draw different Echocardiographic views
5. What are the types of IV cannula? Explain.
6. Write about Hot Air oven
7. Defibrillators
8. Advanced life support
9. What are colloid fluids and crystalloid fluids?
10. Explain Basic life support

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What are the indications to terminate treadmill test?
12. What are the four major types of radiation?
13. Write the types of pasteurization.
14. What is the principle of autoclave?
15. What are the 3 main types of IV fluids?
16. Side effects of radiation.
17. Explain Steam sterilization
18. What are the types of intubations?
19. Write about ventilators.
20. Write about Diuretics
21. What is operation theatre?